

Rotation Fixture Specifications

- *Flotron Item # XDEN747DB-J3-DR-INDS15-P12/A30-B70-C1 Series Rotational Holding Fixtures or EQUIVALENT.*

Key Features include:

- a double beam Rotational Holding Fixture with a load rating of 1,300 lbs or greater.
 - This rating should consider a minimum safety factors of 3 for yield strength and 5 for ultimate strength in addition to a simultaneous dynamic loading condition of 0.5G lateral and 1.0G vertical for stress and stability
- vertical height adjustability of at least 36" to greater than 46"
- overall width of at least 60", including leveling jacks
- overall length of at least 115"
- overall height of approximately 57" in the highest position
- non-back driving gearbox
 - ability to positively lock in position at every orientation
 - sealed, double reduction, low backlash, stair-step resistant gearbox with a ratio of 250:1 and a torque rating of at least 5,300 in-lbs considering 3:1 yield and 5:1 ultimate safety factors
 - sealed gearbox is lubricated with SHC-007 semi-fluid synthetic grease or EQUIVALENT
 - input load on the hand-crank of 12 lbs or less
 - capability to rotate payload 360 degrees and lock out the rotation axis in 15 degree increments
 - index pin will be tethered to the fixture with an ESD compatible material
- Flotron's standard P12/A30 combination mounting plate & angle mount interfaces or EQUIVALENT
 - distance between mounting interfaces of approximately 70"
- 5" diameter casters with polyurethane wheel material, a king-pin-less swivel bearing, tread lock brakes and swivel locks
 - caster swivels bearing lubricated with Krytox GPL-207 or EQUIVALENT
 - caster roller bearing shall be delrin material or EQUIVALENT
- 4 removable leveling jacks
 - leveling jacks shall raise and lower the fixture at a rate of approximately 8 turns per inch
 - enclosed lifting jack mechanism shall be lubricated with Synco-Super lube synthetic grease with Syncolon (PTFE) or EQUIVALENT
- finish compatible with a CLASS 10K clean room
- end frames and main beam shall be finished with a gloss white powder coat

- electro-less nickel plated risers, interfaces, gearbox plate, index plate and caster bodies
- All of the fasteners/hardware are stainless steel or finished with electro-less nickel plating
- plain side trunnion bearing shall be lubricated with Krytox GPL-207 or EQUIVALENT
- welders shall be certified to AWS D17.1
 - welders certifications shall be documented and made available to the Government upon request
- Manufacturer shall be ISO-9001 certified